



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-34 Date: 18/03/2019
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-03-19
Customer ID : Drain Bottom Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 18/03/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	11/03/2019	18/03/2019	150.28 X 149.01 X 150.36	22394	8.512	408.6	18.2	18.5
2	Drain Bottom Slab Concrete	M20	11/03/2019	18/03/2019	149.28 X 151.29 X 151.60	22584	8.935	418.0	18.5	
3	Drain Bottom Slab Concrete	M20	11/03/2019	18/03/2019	150.93 X 149.43 X 149.36	22553	8.334	423.9	18.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಸಾರ್ವಜನಿಕ ಅಭಿವೃದ್ಧಿ
ಯಂತ್ರ ಸಂಸ್ಥೆ ಸಂಪನ್ಮೂಲ ಸಚಿವರು
ಜಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106

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****End of Report****



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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/04/2019

Lab ID : CP-2019-04-12-34
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri D.V.Kumar, No:657, 5th Main, L.G Ramanna Layout, Laggere, Bangalore-58
Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-03-19
Customer ID : Drain Bottom Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2019

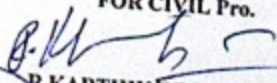
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M20	11/03/2019	08/04/2019	149.47 X 150.38 X 150.18	22478	8.064	537.0	23.9	23.3
2	Drain Bottom Slab Concrete	M20	11/03/2019	08/04/2019	149.43 X 149.43 X 151.94	22328	8.649	497.3	22.3	
3	Drain Bottom Slab Concrete	M20	11/03/2019	08/04/2019	151.67 X 151.25 X 149.69	22940	8.515	541.8	23.6	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಯಲಹಂಕ ಸಾಟಲೈಟ್ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-10

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Authorized Signatory
Quality Manager





TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-34 Date: 21/03/2019

Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/03/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	14/03/2019	21/03/2019	151.64 X 150.76 X 151.09	22862	8.512	420.1	18.4	18.4
2	Drain Side Wall Concrete	M20	14/03/2019	21/03/2019	149.50 X 151.36 X 151.24	22627	8.935	426.2	18.8	
3	Drain Side Wall Concrete	M20	14/03/2019	21/03/2019	149.00 X 149.21 X 149.16	22232	8.334	402.1	18.1	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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ಯುಪಕರಣ ಉಪನಿರ್ದೇಶಕರು
ಜಿ.ಪಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106

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****End of Report****



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Authorized Signatory
Quality Manager



4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	Drain Side Wall Concrete	M20	14/03/2019	21/03/2019	149.63 X	22431	8.512	406.4	18.1	18.4	
					149.91 X						
					149.69						
2	Drain Side Wall Concrete	M20	14/03/2019	21/03/2019	151.98 X	23037	8.935	425.9	18.5		
					151.58 X						
					149.10						
3	Drain Side Wall Concrete	M20	14/03/2019	21/03/2019	149.13 X	22596	8.334	419.3	18.6		
					151.52 X						
					149.11						

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧ್ಯಯನಾಧಿಕಾರಿ
ಯಲಚರಂ ಉಪನಗರ ಉಪವಿಭಾಗ
ದಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Quality Manager

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****End of Report****





AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-04-12-34 Date: 19-03-19

Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-03-19

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 15/03/2019

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	200.52	250.53	3.126	31574	242.6	7.7	7.1	8.9
2	Cover Slab-2	200.48	250.49	3.129	31561	240.8	7.6	7.1	8.9
3	Cover Slab-3	200.49	250.52	3.118	31564	239.1	7.6	7.0	8.8

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿಗಳು
ಯುಪವಿಡಿ ಸುಪನಗರ ಸುಪವಿಡಿಭಾಗ.
ಇ.ಪಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-108

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Authorized Signatory
Quality Manager



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/03/2019

Lab ID	: CP-2019-04-12-34	Date: 18/0
Customer	: Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	: Yellahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	: Providing Asphaltting to 17th B Cross Road in Ward No 04.	
Agency	: Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58	
Customer's Reference	: EE(YNK.D)E-PMT-03/W.O/120/2018-19	
Source of Sample	: Sample supplied by Agency	
Sample Condition	: Satisfactory	
Date of Receipt	: 13-03-19	
Customer ID	: Drain Bottom Slab Concrete	
Sample Type /Size	: 150X150X150 mm	
Sample grade/Age	: M20 / 7 Days Compressive Strength	
Reference to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	

Date of test : 18/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength		
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)		
1	Drain Bottom Slab Concrete	M20	11/03/2019	18/03/2019	150.20 X	22826	8.512	429.1	18.8	18.4		
					151.98 X							
					151.00							
2	Drain Bottom Slab Concrete	M20	11/03/2019	18/03/2019	150.20 X	22784	8.935	410.8	18.0		18.4	
					151.69 X							
					151.13							
3	Drain Bottom Slab Concrete	M20	11/03/2019	18/03/2019	149.57 X	22497	8.334	411.3	18.3			18.4
					150.41 X							
					149.27							

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-12-34
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-03-19
Customer ID : Drain Bottom Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 08/04/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	11/03/2019	08/04/2019	150.46 X 149.95 X 150.58	22561	8.064	522.4	23.2	23.1
2	Drain Bottom Slab Concrete	M20	11/03/2019	08/04/2019	149.29 X 151.53 X 151.45	22622	8.649	501.4	22.2	
3	Drain Bottom Slab Concrete	M20	11/03/2019	08/04/2019	151.60 X 151.09 X 149.15	22905	8.515	546.0	23.8	

Note:

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ಆರೋಗ್ಯಕರ ಮತ್ತು ಸುರಕ್ಷಿತವಾಗಿ
ಯಶಸ್ವಿ ಮತ್ತು ಸುರಕ್ಷಿತವಾಗಿ
ಪ್ರಸ್ತುತಿಸಲಾಗಿದೆ-106

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-04-12-34 Date: 08-03-19
 Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
 Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
 Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
 Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
 Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 05-03-19
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2,3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 06-03-19

Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	—
2	Finess by Air permeability method (m ² /kg,Min)	298.6	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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ಇದೇ ಪರೀಕ್ಷಾ ಫಲಿತಾಂಶವು
 ಯಾವುದೇ ಸಾಕ್ಷಾತ್ಕಾರದ ಅಗತ್ಯವಿಲ್ಲದೆ
 ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಪರಿಗಣಿಸಲ್ಪಡುತ್ತದೆ-106

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R KARTHIK RECHAN

Authorized Signatory
 Quality Manager



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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |



Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-04-12-34 Date: 08-03-19
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub
Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere,
Bangalore-58
Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 05-03-19
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-03-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	385	385	2.6	97.4	90-100
3	20 mm	7048	7433	49.6	50.4	30-70
4	10 mm	4396	11829	78.9	21.1	10-35
5	4.75 mm	2845	14674	97.8	2.2	0-5
6	Pan	326	15000	100.0	0	---

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ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಯು.ಪಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106

P.K. h.c
CIVIL PRO
Sig.
Date



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-04-12-34 Date: 07-03-19
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
Customer Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-03-19
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-03-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	318	318	6.4	93.6	90-100
3	10 mm	2852	3170	63.4	36.6	25-55
4	4.75 mm	1622	4792	95.8	4.2	0-10
5	Pan	208	5000	100	0	-

ಸಹಾಯಕ ಅಧೀಕ್ಷಕರು
ಯಂತ್ರೋಪಕರಣ ಸಂಪನ್ಮೂಲ
ಇ.ಇ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Signature
Date

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-04-12-34 Date: 07-03-19

Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-03-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 05-03-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	129	186	18.6	81.4	60-95	75-100	85-100	95-100
4	1.18 mm	219	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	203	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	179	787	78.7	21.3	5-20	8-30	12-40	15-50
7	150 micron	149	936	93.6	6.4	0-10	0-10	0-10	0-15
8	Pan	64	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧ್ಯಯನ
ಯುಪಕರಣ ಸುಪರೈಸರ್ ಸುಪರೈಸರ್
ಇ.ಎಂ.ಎ. ಬೆಂಗಳೂರು-106



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TEST RESULTS OF STEEL

Lab ID : CP-2019-04-12-34 Date: 09-03-19

Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 08-03-19

SL.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.393	508	532	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	528	560	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	543	572	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-04-12-34 Date: 19-03-19

Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-03-19

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 15/03/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.52	100.45	1.117	4478	80.7	18.0	16.8	20.9
2	Cover Slab-2	75.48	100.5	1.123	4474	83.3	18.6	17.3	21.6
3	Cover Slab-3	75.49	100.53	1.119	4475	81.9	18.3	17.0	21.3

Note:

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2019-04-12-34 Date: 20-03-19
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
Customer Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-03-19
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 18-03-19
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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**TEST REPORT OF AGGEGRATE IMPACT VALUE****IS: 2386 Part IV**

Lab ID : CP-RW-2019-04-12-34 Date: 20-03-19

Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58

Customer Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-19

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 18-03-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.6	

Note:-

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Date

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2019-04-12-34 Date: 20-03-19
 Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
 Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
 Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
 Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
 Customer Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 18-03-19
 Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
 Date of test : 18-03-19

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2019-04-12-34 Date: 28-03-19
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
Customer Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 25-03-19
Type of Mix : DBM (Dense Bituminous Macadam)
Date of test : 25-03-19

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

SL.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	-

Note:-

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Quality Manager

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2019-04-12-34 Date: 06-04-19
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
Customer Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Sample supplied by Agency
Date of Receipt : 05-04-19
Type of Mix : DBM (Dense Bituminous Macadam)
Date of test : 05-04-19

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.4	4.6
4	Average percentage	%	4.5	

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Lab ID	: CP-RW-2019-04-12-34	Date: 02-04-19
Customer	: Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	: Yellahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	: Providing Asphaltting to 17th B Cross Road in Ward No 04.	
Agency	: Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58	
Customer Reference	: EE(YNK.D)E-PMT-03/W.O/120/2018-19	
Source of Sample	: Sample supplied by Agency	
Sample Condition	: Satisfactory	
Date of Receipt	: 30-03-19	
Type of Mix	: BC(Bitumenous Concrete)	
Date of test	: 30-03-19	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : CP-RW-2019-04-12-34 Date: 02-04-19
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
Customer Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-03-19
Type of Mix : BC (Bituminous Concrete)
Date of test : 30-03-19

Table 500-16 : Physical Requirements for Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2019-04-12-34 Date: 02-04-19
 Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
 Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
 Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
 Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
 Customer Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
 Source of Sample : Hot Mix Plant, Bangalore
 Sample Condition : Satisfactory
 Date of Receipt : 30-03-19
 Type of Mix : BC (Bituminous Concrete)
 Date of test : 30-03-19

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	-

Note:-

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TEST REPORT ON BITUMEN

Format No: CP/TF/01

Lab ID : CP-RW-2019-04-12-34
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphaltting to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore-58
Customer's Reference : EE(YNK.D)E-PMT-03/W.O/120/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 22-03-19
Sample Type : Bitumen
Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test : 22-03-19

Date: 23-03-19

Test Results

Sl.no	Name of Test	Result	Requirements as per IS: 1201-1220
1	Penetration at 25°C, in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2019-04-12-34 Date: 10-04-19
Customer : Assistant Executive Engineer, Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yellahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Providing Asphalt to 17th B Cross Road in Ward No 04.
Agency : Sri.D.V.Kumar, No.657, 5th Main, L.G Ramanna Layout, Laggere, Bangalore-58
Customer Reference : EE(YNK.D)E-PMT-03/W O/120/2018-19
Sample Condition : Satisfactory
Date of Receipt : 09-04-19
Type of Mix : Tack coat
Date of test : 09-04-19

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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